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## JEFFERSON COUNTY

### (Jefferson County Water Service Area Map)

- Estimated 1999 population of 662,500--99% on public water
- Estimated 2020 population of 652,000--100% on public water
- 290 miles of water lines, with plans for 23 additional miles
- Estimated funding needs for public water 2000-2005:\$7,170,000\*\*
- Estimated funding needs for public water 2006-2020:\$0

Jefferson County had an estimated population of 662,507 (281,836 households) in 1999 with a projected population of 651,646 (294,448 households) in 2020. Public water is provided to about 99 percent of the county's residents. In areas of the county not served by public water, half the households rely on private domestic wells and half the households rely on other sources. About 1,870 households will be added to public water service through new line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2006-2020*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
JEFFERSON			All projects	funded	internally			-
Louisville Water	23	1,870	7,170**					-

#### *Estimated Costs - Proposed Projects, 2000-2020*

Louisville Water Company: ..... \$7,170,000  
2006-2020:..... \$7,170,000  
23 miles line extensions, 1,870 households  
**Total, Jefferson County (2005-2020):..... \$7,170,000**

### PUBLIC WATER SYSTEMS

Jefferson County residents are supplied water by the Louisville Water Company (L.W.C.). The L.W.C. serves over 210,669 households. Of these residential customers; 7,219 are in Bullitt County; 3,547 are in Oldham County; 199,033 are in Jefferson County. Additionally the L.W.C. sells water on a wholesale basis to Oldham County, Shelby County, Bullitt County, and Spencer County.

#### **LOUISVILLE WATER COMPANY**

PWSID:..... 0560258

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# WATER SERVICE AREAS

## JEFFERSON COUNTY

### Kentucky

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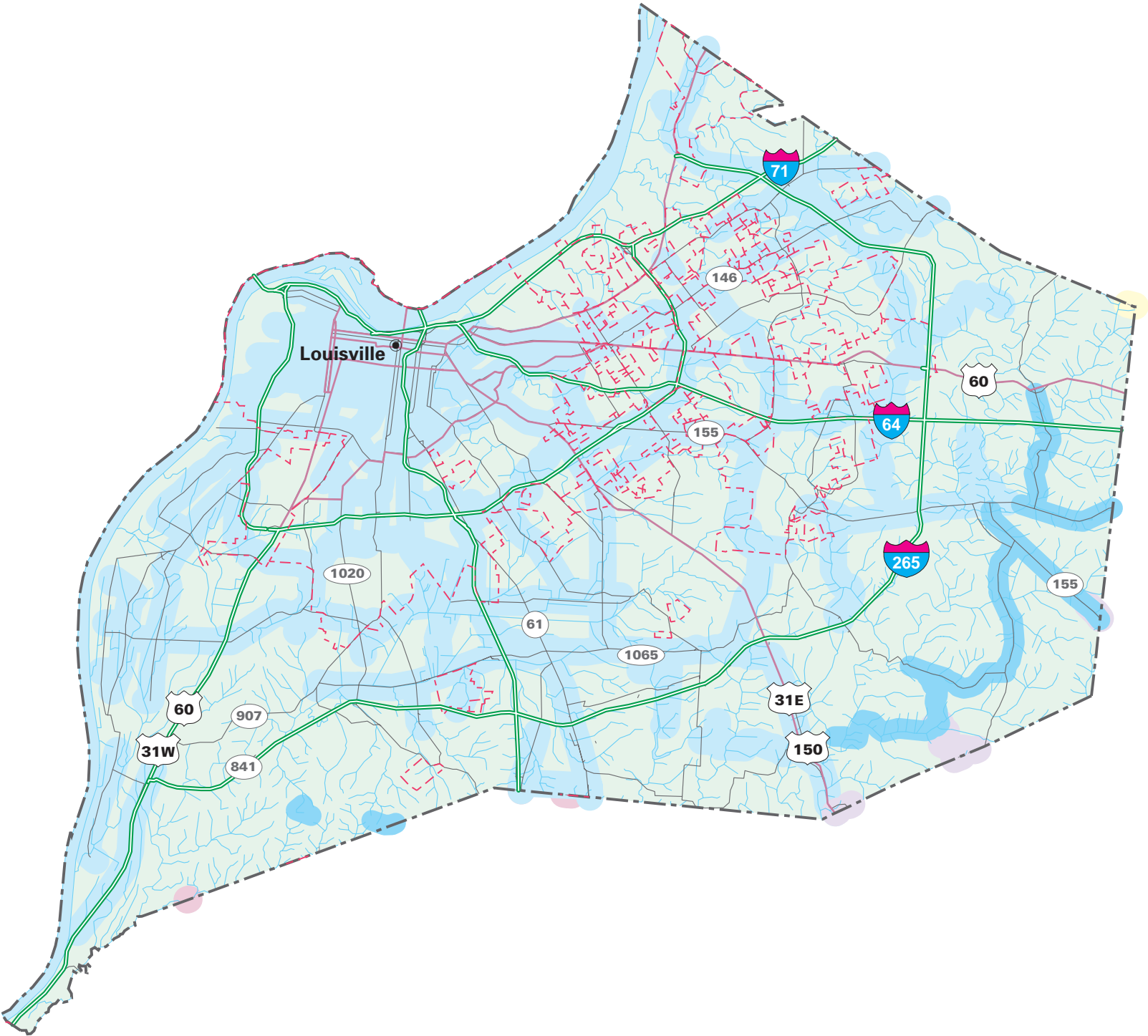
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#### WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		TAYLORSVILLE WATER WORKS
		NORTH SHELBY WATER COMPANY
		LOUISVILLE WATER COMPANY
		KENTUCKY TURNPIKE WATER DISTRICT NUMBER 1

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System Type:.....	COMMUNITY
Owner Type:.....	MUNICIPAL
Surface Source:.....	OHIORIVER
Purchase Source:	
Well Source:	
Sells Water to:.....	KENTUCKY TURNPIKE WATER DISTRICT #1
Treatment Plant Capacity (MGD):.....	300.00
Percent Daily Average Production:.....	44.00
Total Tank Storage Capacity (gallons):.....	55,400,000.00
Total Service Connections: .....	231,808.00
Number of Employees:.....	Hundreds
Treatment Operator Class: .....	4D
Distribution Operator Class:.....	4A
Customer Rate for 1,000 Gallons:.....	Not available
O/M costs 1997:.....	Not available
O/M costs per Service Connection: .....	Not available
Net Revenue 1997:.....	Not available
Total Water Produced 1997 (gallons):.....	Not available
Water Sold 1997 (gallons):.....	Not available
Unaccounted-for Water 1997 (%): .....	Not available

The Louisville Water Company source of water (surface) comes from the Ohio River. This system has a treatment plant with a design capacity of 60 million gallons per day, and a filter plant with a design capacity of 240 million gallons per day. The total annual volume of water sold is currently around 38.5 billion gallons. They have 22 storage tanks with a total storage capacity of 55,350,000 million gallons. There are several hundred full-time employees, and over 2 dozen are certified operators.

Only 5% of the population in Jefferson County are not presently being served by the L.W.C., but line expansion projects are ongoing and will be complete by 2002. At that time, all previously unserved areas will have water service. The main transmission line to Taylorsville (in *Spencer County*) is finished and Taylorsville Water Works is now buying all its water from the Louisville Water Company. There is also a planned and funded project in *Bullitt County* whereas the city of Lebanon Junction will be purchasing all its water from Ky. Turnpike Water District (who is supplied by the L.W.C.). Also with the eventual construction of the L.W.C. transmission line along I-64 going east into *Shelby County*, the 3 water districts (within *Shelby County*) and Shelbyville Municipal will have enough potable water to meet any future needs. Overall, the Louisville Water Company continues to be a key factor not only in economic growth, but it also provides quantity and quality of potable water in all the counties adjacent to Jefferson County.

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## OTHER SYSTEMS

### **SSK**

SSK is located in Jefferson County. The system serves a population of 750 and has 309 service connections. The private, non-transient, non-community system purchases water from Louisville water Company.

### **WALLACE FARM**

Wallace Farm is located in Jefferson County. The system serves a population of 70 and has 25 service connections. The private, community system has treatment capacity of 15000 gallon per day. The water source is ground water from wells.

### **CEDAR RIDGE PRESBYTERIAN CAMP**

Cedar Ridge Presbyterian Camp is located in Jefferson County. The system serves a population of 60 and has 1 service connection. The private, transient, non-community system has treatment capacity of 8000 gallon per day. The water source is surface water from a lake.

## PRIVATE DOMESTIC SYSTEMS

Fewer than 10,000 residents of Jefferson County rely on private domestic water supplies: about half on wells and half on other sources.

The alluvium along the Ohio River is the best source of ground water in the county. Many properly constructed drilled wells will produce over one thousand gallons per minute from the alluvium, with most wells able to produce enough for a domestic supply at depths of less than 100 feet. Water is hard or very hard but otherwise of good quality.

In the main sections of the larger creek valleys and on broad ridges in central Jefferson County, most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. Some wells located in the smaller creek valleys and in some broad ridges in southwestern and central Jefferson County will produce enough water for a domestic supply except during dry weather. In the upland areas of the rest of Jefferson County which encompasses approximately 30% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines which may produce

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enough water except during dry weather. Ground water in these areas is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

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